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Revision: 24.05.2004 Replaces the version of: 01.03.2004 PDF date: 18.12.2006  
Sägekettenöl 100 1l  
Art.: 1277

## Safety Data Sheet according to EC-Regulation 91/155/EEC

### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or preparation

**Sägekettenöl 100 1l**

**Art.: 1277**

#### Use of the substance/preparation

Refer to description of material or preparation.

#### Company/undertaking identification

LIQUI MOLY GmbH, Jerg-Wieland-Straße 4, D-89081 Ulm-Lehr  
Telephone (+49) 0731-1420-0, Fax (+49) 0731-1420-88

#### Emergency telephone / Office for advice

#### Advisory office in case of poisoning:

Tel.:

#### Telephone number of the company in case of emergencies:

Tel. (+49) 0731-1420-0

### 2. Composition/information on ingredients

2.1 Chemical name	content %	symbol	R-phrases	EINECS, ELINCS
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### 3. Hazards identification

#### 3.1 To people

See point 11 and 15.

Preparation is not classified as hazardous in the sense of directive 1999/45/EC.

#### 3.2 To the environment

See point 12.

Product can compose a film on the water surface, which can prevent oxygen exchange.

### 4. First aid measures

#### 4.1 Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

#### 4.2 Eye contact

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Keep Data Sheet available.

#### 4.3 Skin contact

Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

#### 4.4 Ingestion

Do not induce vomiting. Consult doctor immediately.

Danger of aspiration.

#### 4.5 Special resources necessary for first aid

n.c.

### 5. Fire-fighting measures

## 5.1 Suitable extinguishing media

Foam

Dry extinguisher

CO2

Water jet spray

## 5.2 Extinguishing media which must not be used for safety reasons

High volume water jet

## 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Oxides of carbon

Flammable vapour/air mixtures.

Decomposition products

Oxides of sulphur

Oxides of nitrogen

## 5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply

According to size of fire

Full protection, if necessary

## 5.5 Further information

Dispose of contaminated extinction water according to official regulations.

## 6. Accidental release measures

Refer to point 13. and for personal protection refer to point 8.

### 6.1 Personal precautions

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

Do not carry cleaning cloths soaked in product in trouser pockets.

### 6.2 Environmental measures

If leakage occurs, dam up.

Prevent from entering drainage system.

### 6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

## 7. Handling and storage

### 7.1 Handling

#### Tips for safe handling:

See point 6.1

General hygiene measures for the handling of chemicals are applicable.

Observe directions on label and instructions for use.

Take measures against electrostatic charging, if appropriate.

If applicable:

Use explosion-proof equipment.

### 7.2. Storage

#### Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.

Store products only unopened, in original packing.

#### Special storage conditions:

See point 10.2

Protect against moisture and store closed.

## 8. Exposure controls/personal protection

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

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Applies only if maximum permissible exposure values are listed here.

Chemical Name	Oil mist, mineral	
WEL-TWA: 5 mg/m3 (ACGIH)	WEL-STEL: 10 mg/m3 (ACGIH)	---
BMGV: ---	Other information: ---	

Chemical Name	Bitumen	
WEL-TWA: 5 mg/m3 (Asphalt, petroleum fumes)	WEL-STEL: 10 mg/m3 (Asphalt, petroleum fumes)	---
BMGV: ---	Other information: ---	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

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|--|--|
| 8.1 Respiratory protection:<br>Filter A - P2 EN 141        | If OES or MEL is exceeded.   |
| 8.2 Hand protection:<br>Protective hand cream recommended. | Protective nitrile gloves (EN 374)   |
| 8.3 Eye protection:  | Tight fitting protective goggles (EN 166) with side protection, with danger of projections.      |
| 8.4 Skin protection:                                       | Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments) |

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 9. Physical and chemical properties

Physical state:	Liquid
Colour:	Brown
Odour:	Characteristic
10 % pH-value:	n.av.
Boiling point/range (°C):	n.av.
Melting point/range (°C):	- 25 (PP)
Flash point (°C):	200
Autoflammability:	n.c.
Minimum limit of explosion:	n.a.
Maximum limit of explosion:	n.a.
Vapour pressure:	n.c.
Density (g/ml):	0,890
Solubility in water:	Insoluble
Viscosity:	100 mm <sup>2</sup> /s/40°C, 13,5 mm <sup>2</sup> /s/100°C

## 10. Stability and reactivity

### 10.1 Conditions to avoid

See point 7

Protect from humidity.

Open flame, ignition sources

### 10.2 Materials to avoid

See point 7

Avoid contact with strong oxidizing agents.

Avoid contact with other chemicals.

### 10.3 Hazardous decomposition products

See point 5.3

## 11. Toxicological information

### 11.1 Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):	n.av.
Inhalation, LC50 rat inhal.(mg/l/4h):	n.av.
Skin contact, LD50 rat dermal (mg/kg):	n.av.
Eye contact:	n.av.

### 11.2 Delayed and chronic effects

Sensitization:	n.c.
Carcinogenicity:	n.c.
Mutagenicity:	n.c.
Reproductive toxicity:	n.c.
Narcosis:	n.c.

### 11.3. Further information

No classification according to calculation procedure.

The following may occur:

- Drying of the skin.
- Irritation of the skin.

## 12. Ecological information

Water hazard class (Germany):	2
Self classification:	Yes (VwVwS)
Persistence and degradability:	Potentially biologically degradable.
Behaviour in sewage plants:	Mechanical precipitation possible.
Aquatic toxicity:	See point 3.
Ecological toxicity:	n.av.

## 13. Disposal considerations

### 13.1. for the material / preparation / residue

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.  
EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.  
Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

07 06 99 wastes not otherwise specified

13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils

Recommendation:

Pay attention to local and national official regulations

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

### 13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

15 01 04 metallic packaging

## 14. Transport information

### General statements

UN-Number: n.a.

### Road/Rail-transport (ADR/RID)

Class/packing-group: n.a.

Classification code: n.a.

LQ: n.a.

### Transport by sea

IMDG-code: n.a. (class/packing-group)

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Marine Pollutant:

n.a.

### Transport by air

IATA:

n.a. (class/secondary danger/packing-group)

### Additional information:

Non-dangerous material according to Transport Regulations.

## 15. Regulatory information

### Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)

Symbols:

Not applicable

Indications of danger:

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R-phrases:

S-phrases:

Additions:

n.a.

Observe restrictions:

n.a.

## 16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany):

10

Revised points:

2,8,15

## Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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